



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity NIMONIC Alloy PE16

Standard Specification for Nickel-Iron-Chromium Alloy Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity NIMONIC Alloy PE16 Nickel-Iron-Chromium Alloy Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

Chemical Composition			Chemical Composition		
Carbon	C %	0.040 - 0.080	Ni + Co	Ni% + Co%	42.000 - 45.000
Silicon	Si %	0.500 max.	Iron	Fe %	Balance
Manganese	Mn %	0.200 max.	-	-	-
Chromium	Cr %	15.500 - 17.500	-	-	-
Sulphur	S %	0.015 max.	-	-	-
Molybdenum	Mo %	2.800 - 3.800	Heat Treatment		
Aluminium	Al %	1.100 - 1.300	As-Cast or Annealing or Age Hardning		
Boron	B %	0.005 max.	Mechanical Properties		
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	830 - 993	
Cobalt	Co %	2.000 max.	Yield Strength in Mpa	450 - 607	
Titanium	Ti %	1.100 - 1.300	Elongation in %	25.2 - 37	
Zirconium	Zr %	0.020 - 0.040	Reduction of Area in %	54 - 55	
Lead	Pb %	0.0015 max.	Hardness in BHN	-	
Silver	Ag %	0.0005 max.	Impact in Joule	-	
Bismuth	Bi %	0.0001 max.			

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS